

In the Specification:

Please amend the specification as shown:

Please delete the paragraph on page 3, lines 1-8 and replace it with the following paragraph:

Item 1:

An oligopeptide represented by Formula (I) shown below:

$A_1\text{-Leu-Asp-Gln-}A_2\text{-}(X)_n$ (SEQ ID NO: 1) (I)

where A_1 represents a hydrophobic amino acid residue having a side chain with a cyclic group; A_2 represents a hydrophobic amino acid residue having an aliphatic hydrocarbon group or an aromatic hydrocarbon group; n is zero or one; and X represents an amino acid residue.

Please delete the paragraph on page 4, lines 7-15 and replace it with the following paragraph:

Item 8:

An oligopeptide according to Item 1, comprising Phe-Leu-Asp-Gln-Ile
(SEQ ID NO: 2).

Item 9:

An oligopeptide according to Item 1, comprising Phe-Leu-Asp-Gln-Val
(SEQ ID NO: 3).

Item 10:

An oligopeptide according to Item 1, comprising Phe-Leu-Asp-Gln-Phg
(SEQ ID NO: 22), where Phg represents a phenylglycine residue.

Please delete the paragraph on page 19, line 18 to page 20, line 2 and replace it with the following paragraph:

The aforementioned washable peptide beads were put into 1 ml of a screening solvent containing 1 nM NBD-labeled dichlorophenol and 10 or 100 nM

2,3,7-trichlorodibenzo-*p*-dioxin (2,3,7-TriCDD). The mixture was incubated overnight with mild shaking at room temperature, and was then transferred onto a glass petri dish, and fluorescent microscope images thereof were recorded. The obtained images were compared with the images recorded in the previous test so as to screen decreased beads.

As shown in Fig. 5, two peptide beads were confirmed to be decreased under the competitive condition of NBD-labeled dichlorophenol (1 nM) with 10 fold concentration of 2,3,7-TriCDD (10 nM). The term "Reference" in Fig. 5 denotes the beads which were determined as not being fluorescently stained in the primary screening. The amino acid sequences of the peptides on the screened beads were determined with a protein sequencer. As a result, the amino acid sequences of the dioxin-binding peptide beads for which quenching by competition with 10 nM 2,3,7-TriCDD was confirmed proved to be Phe-Leu-Asp-Gln-Ile (SEQ ID NO: 2) and Phe-Leu-Asp-Gln-Val (SEQ ID NO: 3). The Phe-Leu-Asp-Gln-Ile (SEQ ID NO: 2) peptide bead was named DB1, and the Phe-Leu-Asp-Gln-Val (SEQ ID NO: 3) peptide bead was named DB2.